SERVICE

Whirlpool Europe
Customer Services

WA 3773/WS-NORDIC

Bauknecht

Service Manual

Washing machine
Frontloader
WA 3773/WS-NORDIC

Model WA 3773/WS-NORDIC
Version 8554 964 61000

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This documentation is only intended for qualified technicians who are aware of the respective safety regulations.

Date: 26.02.1996
Document-No.: 4812 712 11269

Subject to modification

Technical data

Dimensions

Height	85,0	cm
Width	59,5	cm
Depth	60,0	cm

Weight

without packing	78	kg

Main connection

Voltage	230	V
Frequency	50	Hz
Power consumption	2,3	kW
Fuse rating	10	A

Drum

Volume		48	l
Wash spin		40 / 54	rpm
Ramp spin		110	rpm
Speed spinning	max	1400	rpm
		1000	rpm
		800	rpm
		600	rpm
		400	rpm
capacity of dry laundry			
cotton/coloured laundry		5	kg
cotton rapid		3	kg
Easy care		2,5	kg
Easy care rapid		1,5	kg
Delicate		1,5	kg
Wool		1	kg

Pressostat

Quantity of water washing		
cotton/coloured laundry	~ 6	l
Easy care	~ 6,5	l
Delicate	~ 15	l
Wool	~ 16	l
Overflow	~ 30	l
Quantity of water rinse		
cotton/coloured laundry	~ 7	l
Easy care	~ 9,5	l
Delicate	~ 16,5	l
Wool	~ 17	l
Overflow	~ 30	l

Nominal current

Contacte	11 - 12	4 (4) A
	11 - 14	16 (4) A
	11 - 16	1 (1) A
	21 - 24	1 (1) A
Contactsystem	11-12-14	jump contacts
	11 - 16	slow action contacts

Door lock

Lock time	3 - 6"	(20°C)
Unlock time	60 - 90"	
Nominal voltage	230	V
Nominal current	contact 4 - 5	1mA
	contact 11 - 14	16 (4) A
	contact 11 - 12	< 1 A

Heating element

Kind of heating	Tubular heating element with NTC - Sensor		
Nominal voltage	230	V	
Nominal power	2050	W	
Heat conductor resistance R 25	24,1	Ω	
Resistance NTC	0	°C	35,9 kΩ
	30	°C	9,8 kΩ
	40	°C	6,6 kΩ
	50	°C	4,6 kΩ
	60	°C	3,2 kΩ
	70	°C	2,3 kΩ
	95	°C	1,1 kΩ

Aquastop

Water temperature	max.	60	°C
Rated flow	< 1 bar	8	l/min.
Pressure range		0,5-10	bar
Nominal voltage		220-240	V
Frequency		50	Hz
Starting voltage	< 6 bar	160	V
	6-10 bar	170	V
Nominal current		35	mA
Nominal power		6	VA
Nominal resistor	(20°C)	4060	Ω

Floater

Nominal current	230	V
Nominal power	3 (1)	A
Switch energy	< 15	cN

Technical data

Drain pump (synchronus)

Nominal voltage	230	V
Nominal current	0,3	A
Nominal consumption	34	W
Frequency	50	Hz
Resistor (coil)	155	Ω ± 7%
Motor protection	yes	(170°C)
capacity (1,25m height)	15	l/min. ± 2

Program timer

Typ	Hybridtimer with integrated electronic	
Fab.	Eaton EC 4489 (Timer 3)	
Nominal voltage	230	V
Frequency	50	Hz
Total positions	60	
Pre wash	pos.	01 - 08
Main wash	pos.	09 - 28
Rinse	pos.	29 - 50
Spin	pos.	51 - 55
Trouble	pos.	56 - 58
Stop	pos.	59 - 60

Motor

Typ	MCA 61/64 - 148t.f./BkD0 i = 1 :12,36	
Resistance	contacts 1 - 2	68,70 Ω ± 7%
	3 - 4	1,65 Ω ± 7%
	5 - 6	1,60Ω ± 7%
	5 - 7	0,69Ω ± 7%

Radio interference supression

Condensator	Fribourg FA 26	
Nominal voltage	230	V
Nominal capacity	1 µ FX2+2x0,022nFY	
Nominal inductances	2 x 1	mH
Nominal resistance	470	kΩ

Push botton switch

start switch	SST
Rinse hold	SRS
Rapid	SR
Pre wash	SPW
eco	SEC
1/2	SHL
Intensive rinse	SRI
Spinning	SSR
Dalay	STD

Display board

Start delay	
Nominal power	PB 7,5 - PB7,7 230 V

Spare part list

Model	**WA 3773/WS-NORDIC**
Service No.	**855496461000**
Version	**855496461000**

Pos. No.	12NC Code	Description
001 0	**4812 440 18996**	Cabinet
003 0	**4812 464 48097**	Traverse Rear top degre
004 0	**4812 440 18995**	Drip tray assy VWS
011 0	**4812 500 18072**	Foot Variable
021 0	**4812 440 19329**	Front
021 1	**4812 440 19331**	Flap Filter
024 0	**4812 440 18997**	Panel, rear
025 0	**4812 440 18989**	Holder Control
030 0	**4812 310 38181**	Table top
040 0	**4812 417 18787**	Hinge
040 1	**4812 417 28009**	Insert
053 0	**4812 459 38011**	Plinth
061 1	**4812 466 88457**	Counter weight
080 0	**4812 466 48053**	Shock absorber
084 0	**4812 466 58001**	Silent block
086 0	**4812 401 18409**	Holder Shock Absorber
086 2	**4812 401 18412**	Stopper
110 0	**4812 498 18139**	Handle,door
130 0	**4812 417 28046**	Lock Door
130 1	**4812 417 28045**	Pin Door Lock
131 0	**4812 417 28047**	Plate Door lock
131 1	**4812 417 28048**	Plate Doorlock Lower
141 0	**4812 450 68218**	Door glass
143 0	**4812 440 18988**	Glassdoor frame
144 0	**4812 459 28043**	Frame,door glas
144 1	**4812 498 18137**	Knob Door safety
144 2	**4812 492 58023**	Spring Door Safety
144 3	**4812 290 68153**	Holder,adjust. Door Safety
190 0	**4812 466 68507**	Door bellow
190 1	**4812 492 18015**	Strap Fix. Bellow
190 2	**4812 492 98011**	Strap
200 0	**4812 418 18181**	Tub
201 0	**4812 464 48002**	Bottom tub
210 0	**4812 520 18034**	Crosspiece
220 0	**4812 418 18186**	Drum 1200-1400,48L
228 0	**4812 418 18096**	Crosspiece,drum
271 0	**4812 358 18007**	V-ribbed belt 1260 J5
272 0	**4812 528 58004**	Pulley
272 1	**4812 532 28006**	Bushing conical
292 0	**4812 530 58003**	Gasket tub bottom
301 0	**4812 452 19214**	Control panel Timer 3
303 0	**4812 498 18138**	Handle, drawer
322 0	**4812 452 19269**	Insert panel WA3773-NORDIC
324 0	**4812 440 18992**	Lid Rearcover
331 0	**4812 413 48222**	Knob
331 1	**4812 413 18191**	Adapter f. Knob
332 0	**4812 410 28546**	Push button Start
332 1	**4812 413 48225**	Push button Right
332 2	**4812 413 18195**	Push button Middle
332 3	**4812 413 48226**	Push button Left
332 4	**4812 413 48224**	Push button Delay
342 0	**4812 413 18192**	Program indic.
342 1	**4812 278 88006**	Slide Indicator
342 2	**4812 413 18193**	Cam Indicator
342 3	**4812 413 18194**	Spring

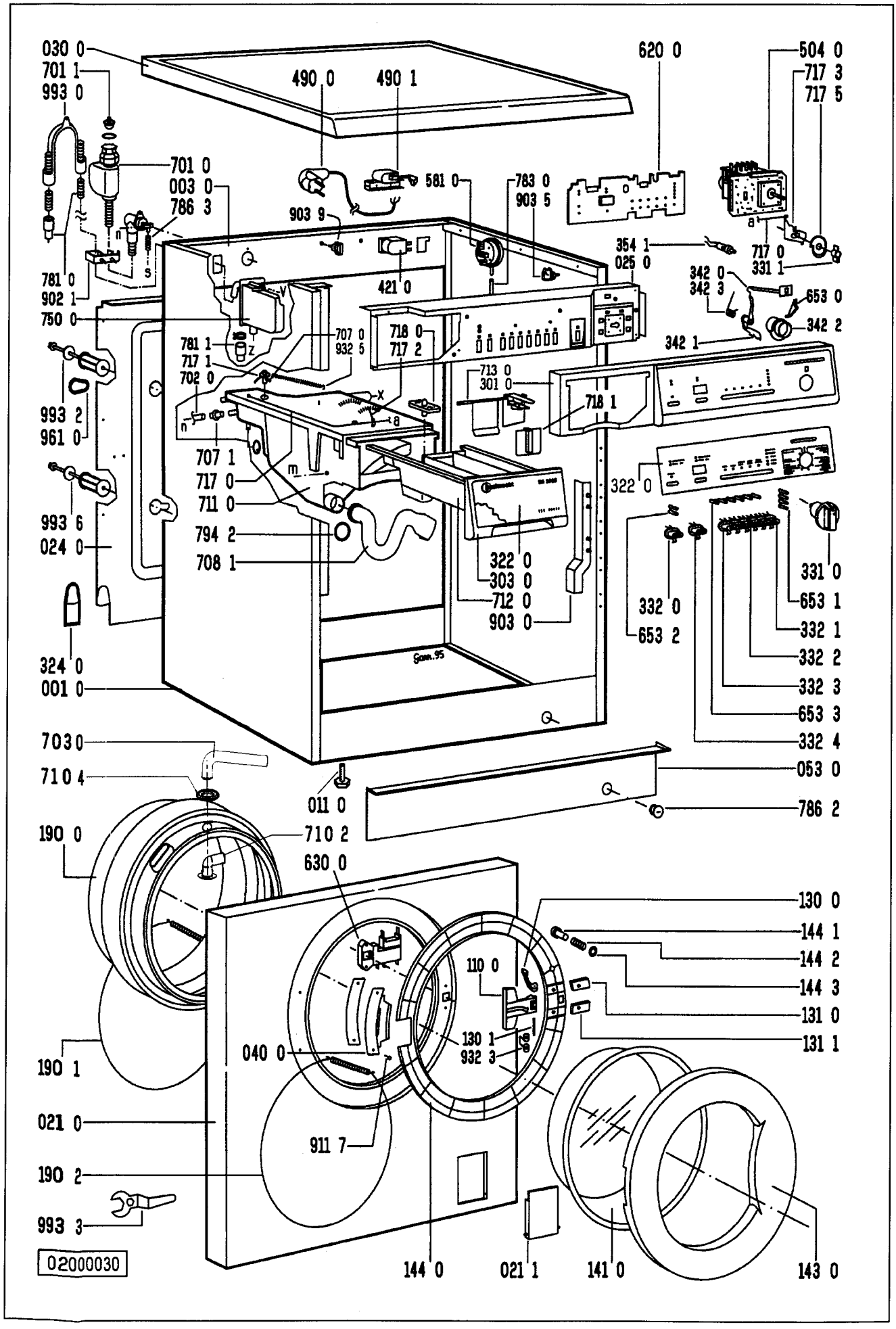
Pos. No.	12NC Code	Description
354 1	**4812 134 48179**	Pilot lamp Timer
401 0	**4812 361 58091**	Motor MCA61/148-1400
421 0	**4812 121 18142**	Interf.filter 1,00 mF
430 0	**4812 360 18362**	Pump
451 0	**4812 259 28658**	Heating element 2050W
490 0	**4819 321 18136**	Cable,mains 2m
490 1	**4812 321 28367**	Strain relief
504 0	**4812 282 18276**	Timer
581 0	**4812 271 28365**	Pressostat
620 0	**4812 276 28363**	Module Timer 3+Delay
623 0	**4812 271 38358**	Switch MICRO
623 1	**4812 271 38359**	Support Switch Aquastop
630 0	**4812 280 58019**	Door lock
653 0	**4812 134 48189**	Guide,light On/Off
653 1	**4812 134 48194**	Guide,light 4x
653 2	**4812 134 48193**	Guide,light 2x
653 3	**4812 134 48195**	Guide,light 6x
701 0	**4812 530 28808**	Hose, inlet VWS 1,5m
701 0	**4812 530 28839**	Hose, inlet VWS 3m
701 1	**4822 480 50159**	Sieve inlet
702 0	**4812 530 28811**	Hose Valve/D. Container
707 0	**4812 526 48031**	Nozzle Distribution
707 1	**4812 526 48028**	Nozzle
708 1	**4812 530 48141**	Bend
711 0	**4812 418 88025**	Dispenser BK,WH-3CH
712 0	**4812 418 78036**	Drawer Detergent
713 0	**4812 418 88019**	Flap Detergent Container
717 0	**4812 321 28365**	Bowden cable
717 1	**4812 321 38013**	Lever , Nozzle
717 2	**4812 321 38012**	Holder,adjust.
717 3	**4812 278 88007**	Slide
717 5	**4812 282 18273**	Cam
718 0	**4812 526 48027**	Siphon 3 - Chamber
718 1	**4812 418 88018**	Accessory
750 0	**4812 530 48139**	Boiler
753 1	**4812 418 68125**	Chamber,air
754 0	**4812 530 28817**	Drainhose
756 0	**4812 360 58101**	Floater
760 0	**4812 480 58075**	Filter Set Pump
760 1	**4812 418 68138**	Gasket Sieve / Rough
781 0	**4812 530 28815**	Hose,draining
781 1	**4812 530 28818**	Hose
783 0	**4812 530 28816**	Hose Pressostat
783 1	**4812 530 28822**	Hose
783 3	**4812 530 18001**	Connection Part
786 0	**4812 530 28812**	Hose Draining
786 1	**4812 462 79641**	Stopper
786 2	**4812 462 79642**	Threaded cap
786 3	**4812 530 28809**	Hose Aqua-Stop
787 0	**4812 530 28819**	Hose with hole
794 2	**4812 530 58005**	O-Ring
794 5	**4812 530 58015**	Gasket
901 0	**4812 401 18054**	Clamp,hose
901 2	**4812 401 18401**	Strap
902 1	**4812 255 18204**	Holder Hose outlet

Spare part list

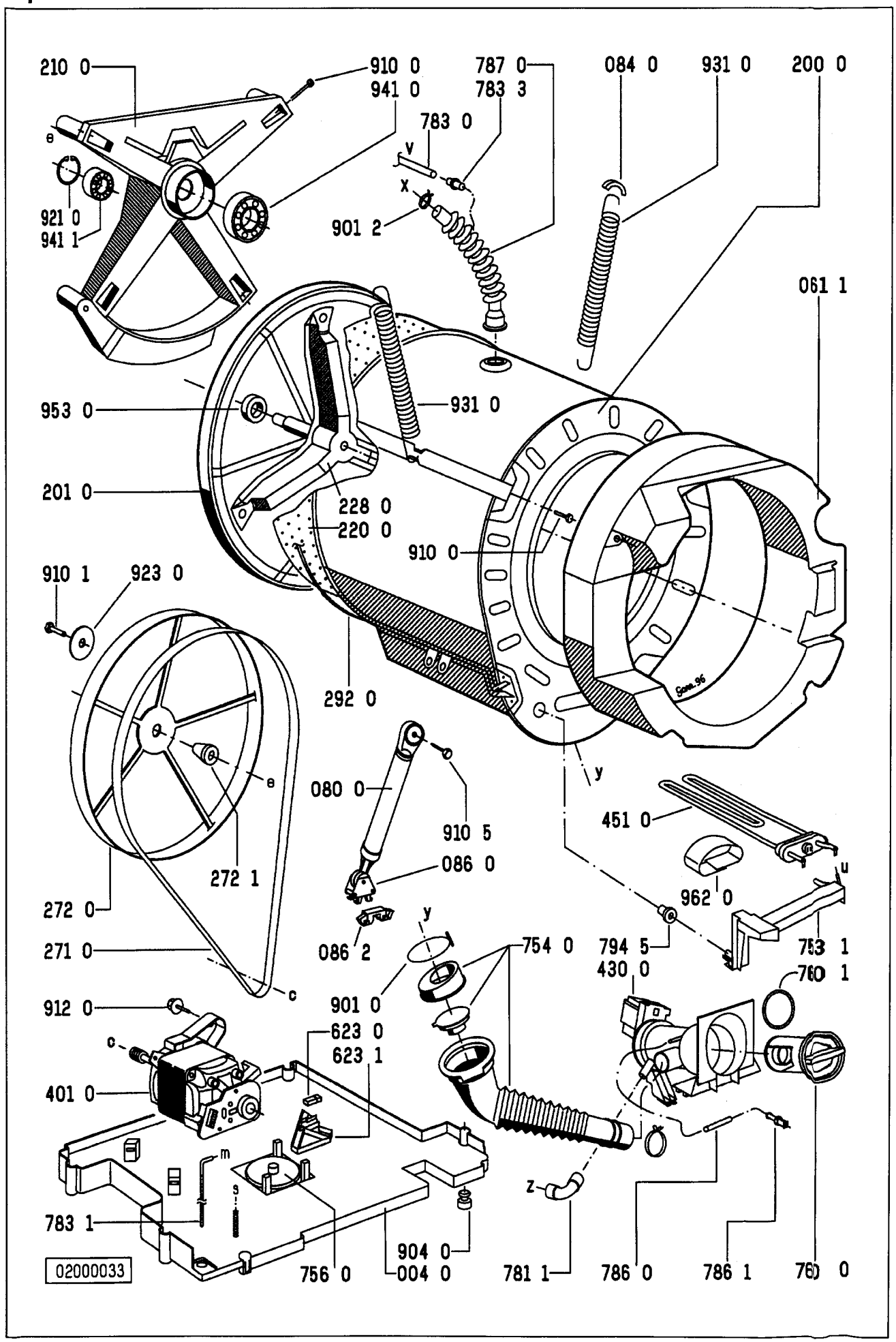
Model	**WA 3773/WS-NORDIC**
Service No.	**855496461000**
Version	**855496461000**

Pos. No.	12NC Code	Description
903 0	**4812 290 88043**	Bracket Door lock
903 5	**4812 290 88048**	Cable clamp
903 9	**4812 290 88046**	Cable clamp
904 0	**4812 529 58002**	Rivet Aquastop
910 0	**4812 452 18994**	Screw M8x20 A2F
910 1	**4812 452 18995**	Screw
910 5	**4812 502 18359**	Screw damper
911 7	**4812 903 08014**	Screw M5x12
912 0	**4812 502 18361**	Screw M8x30
921 0	**4812 011 18522**	Ring,circlip 52x2
923 0	**4812 532 18024**	Washer
931 0	**4812 492 38361**	Spring Suspension 1200
932 3	**4812 492 58022**	Spring Door Lock
932 5	**4812 492 38359**	Spring , Nozzle
941 0	**4812 520 28003**	Bearing,ball 6306
941 1	**4812 520 28005**	Bearing,ball 6304
953 0	**4812 530 68001**	Shaft seal V 40 A
961 0	**4812 321 48004**	Cover
962 0	**4812 466 38011**	Cover,protect. heating element
993 0	**4812 530 48017**	Bow
993 2	**4812 395 88005**	Fastener transit
993 3	**4812 395 58004**	Tool
993 6	**4812 268 18014**	Lever,security

Exploded view

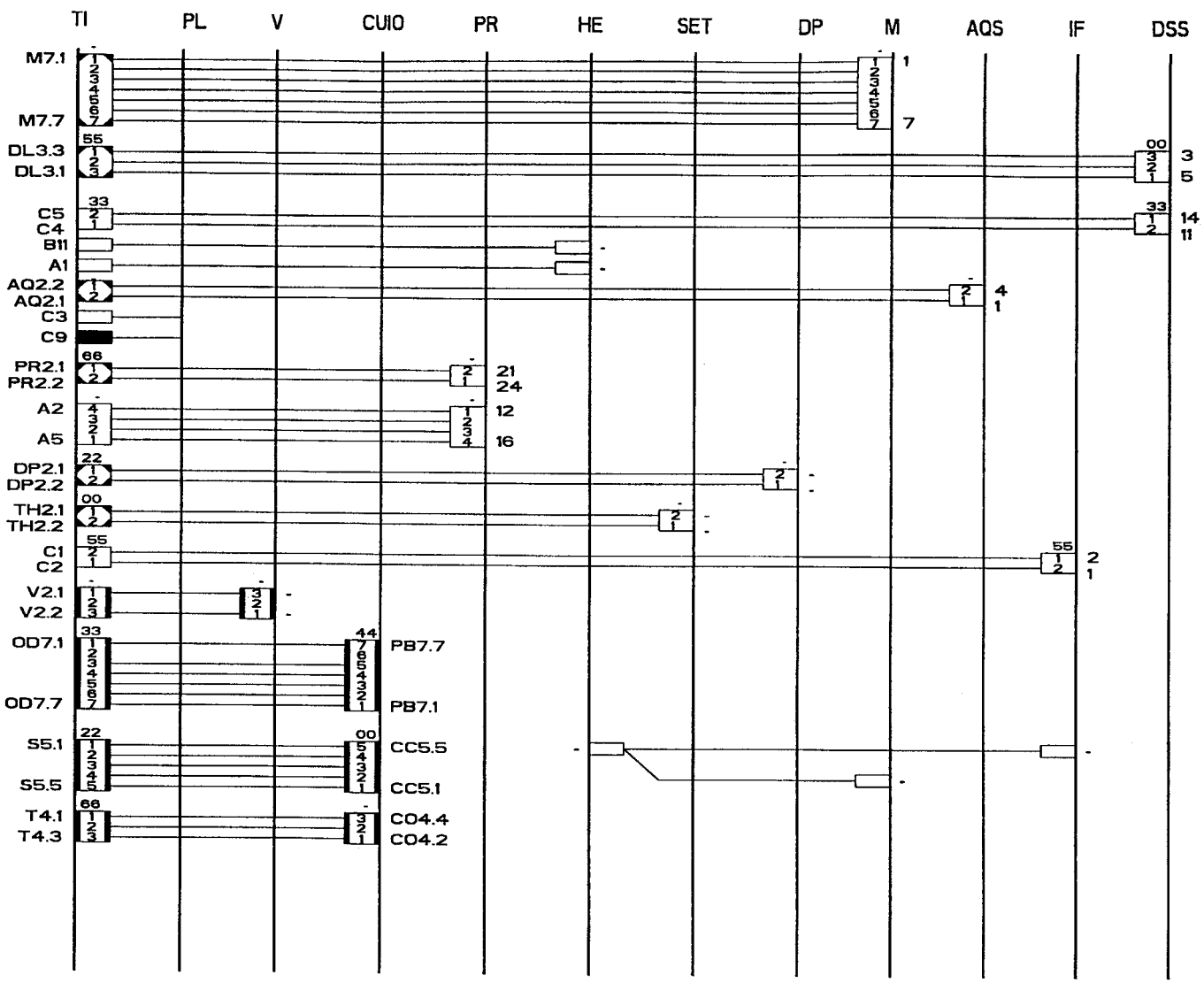


Exploded view



Wiring diagram

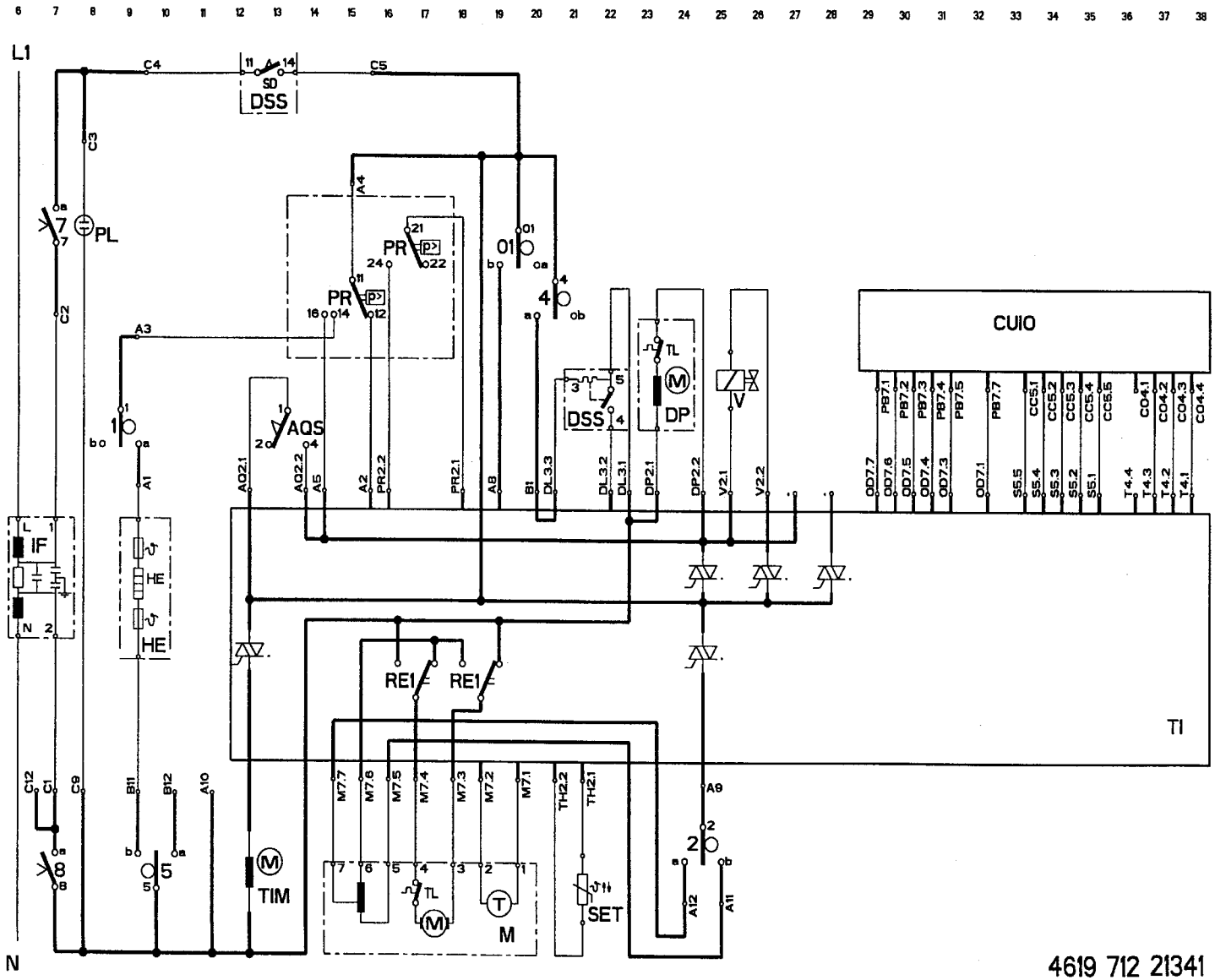
00	black
11	brown
22	red
33	orange
44	yellow
55	green
66	blue
77	violet
88	grey
99	white



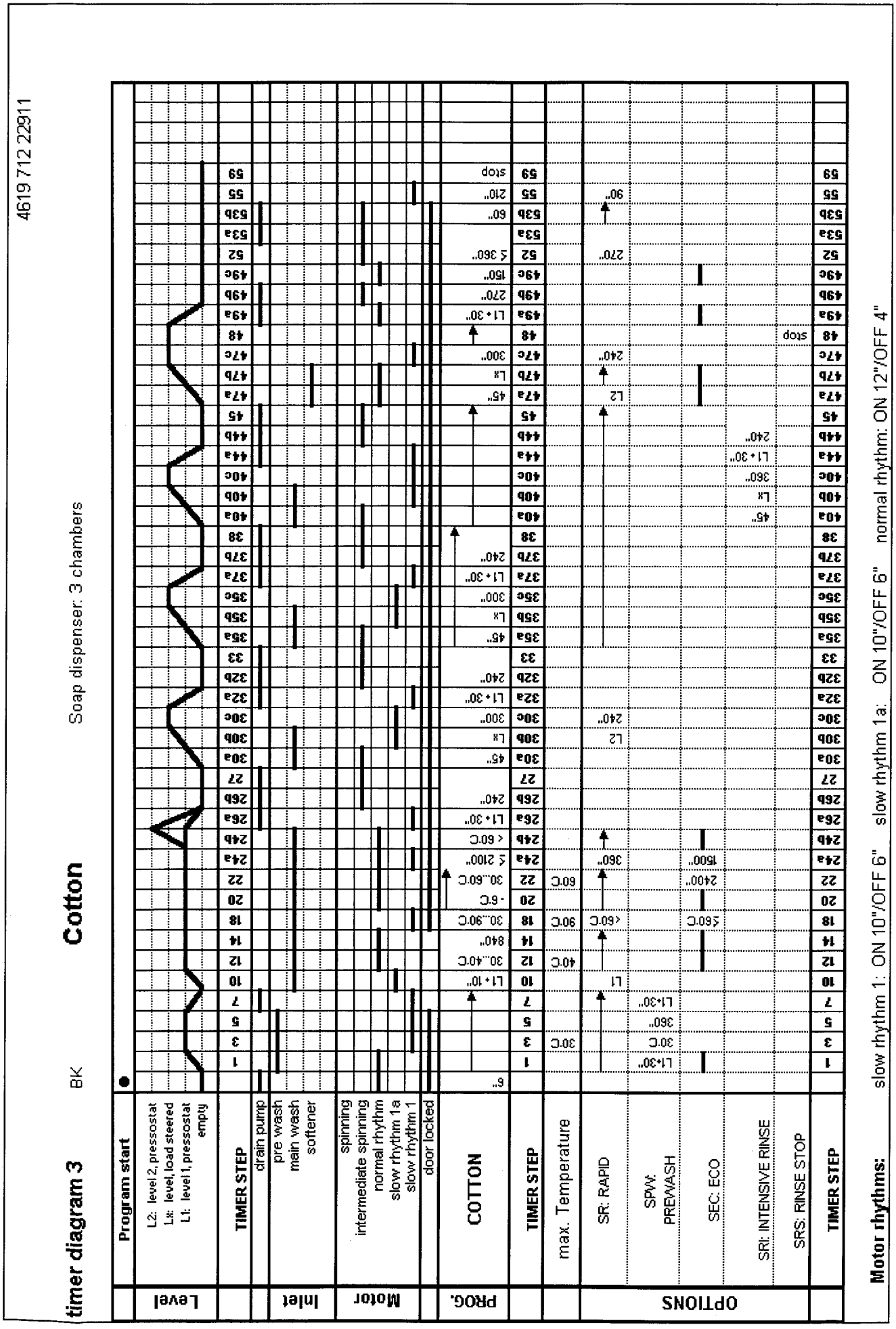
4619 712 21341

Circuit diagram

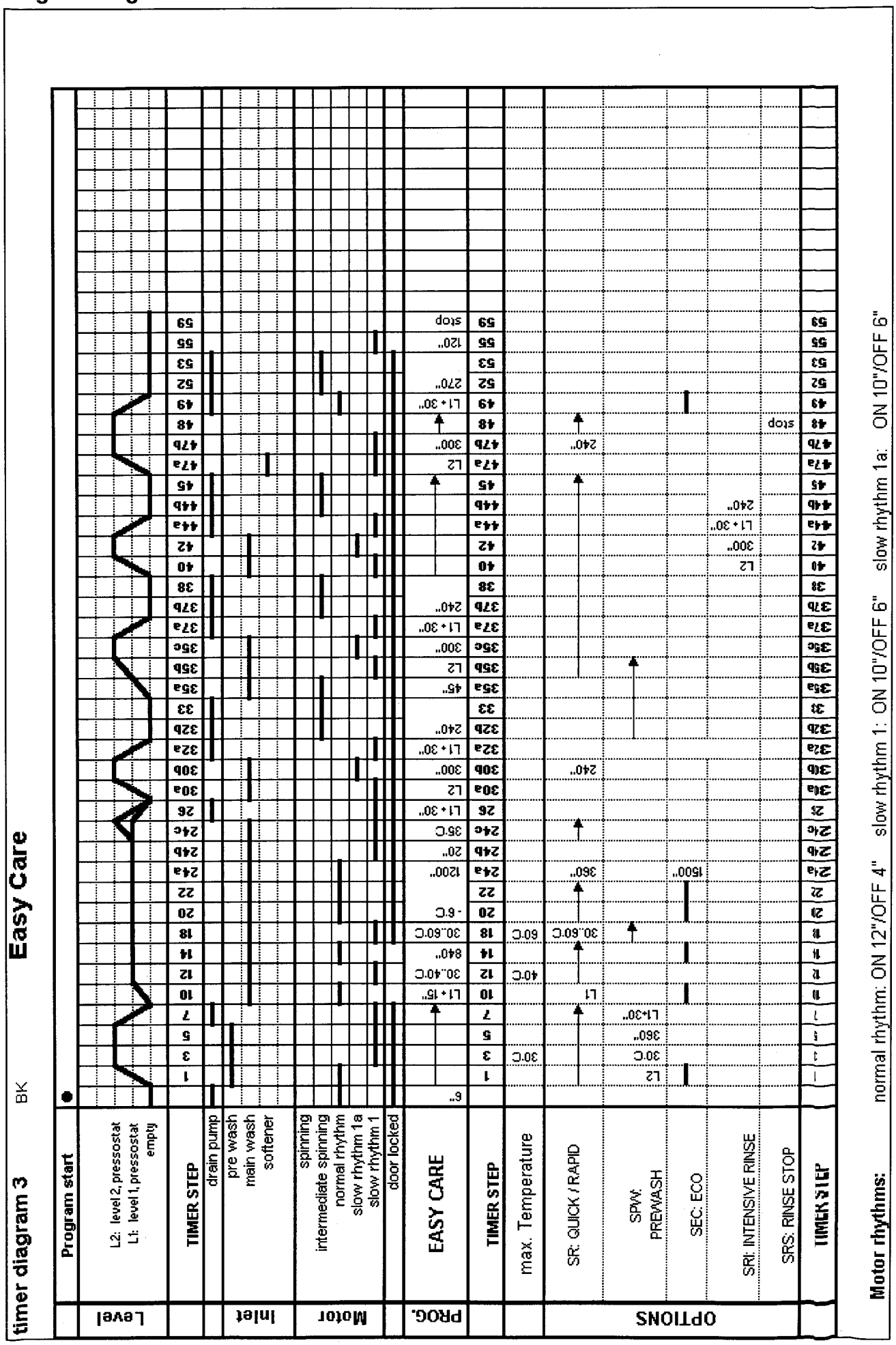
AQS	aquastop switch
CUIO	control unit, user IO
DP	drain pump
DSS	door safety switch
HE	heating element
IF	interference filter
M	motor drive
PL	pilot lamp
PR	pressostat
RE1	relay
SD	switch, door
SET	sensor, temperature
TI	timer
TIM	timer motor
V	valve



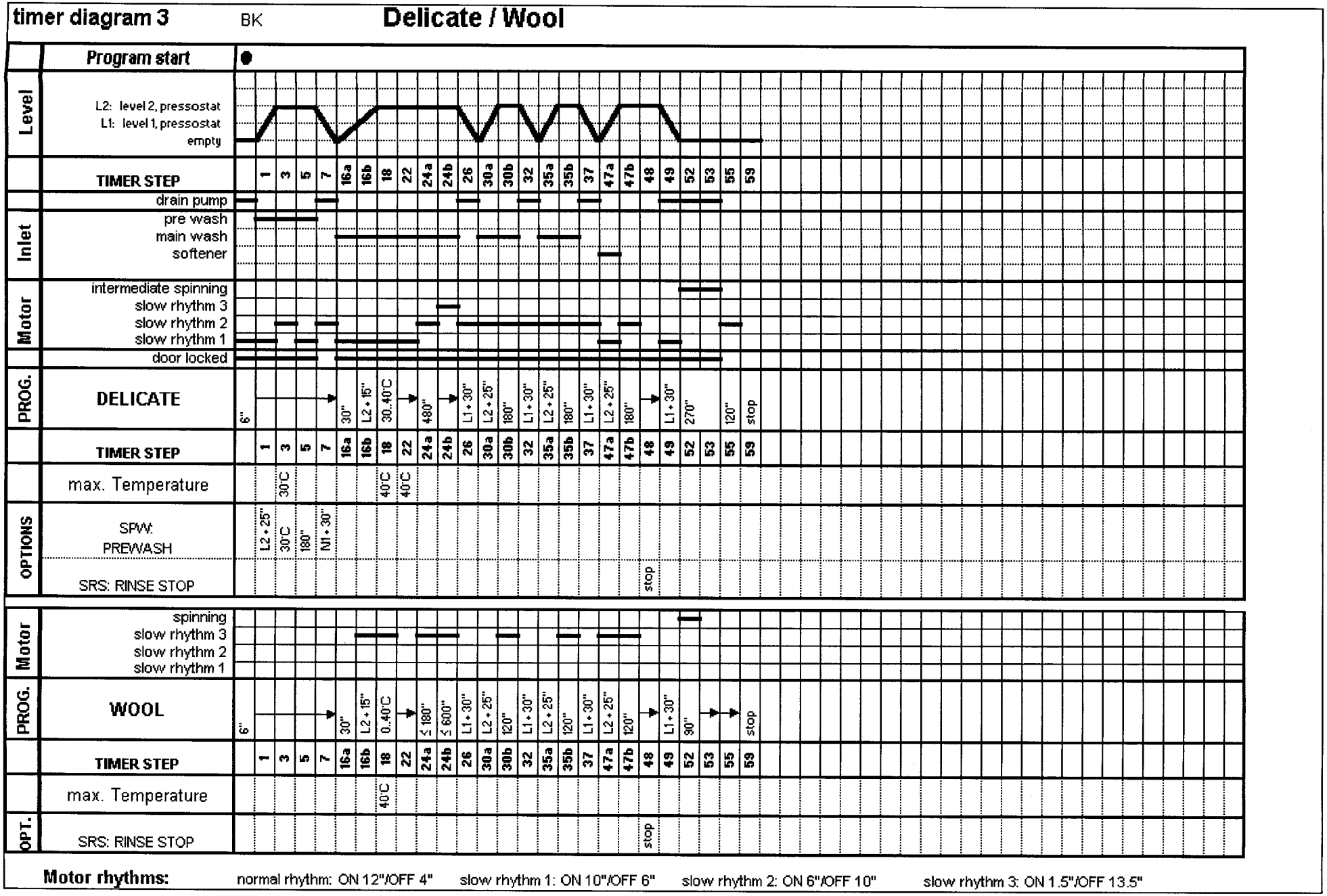
Program diagram



Program diagram

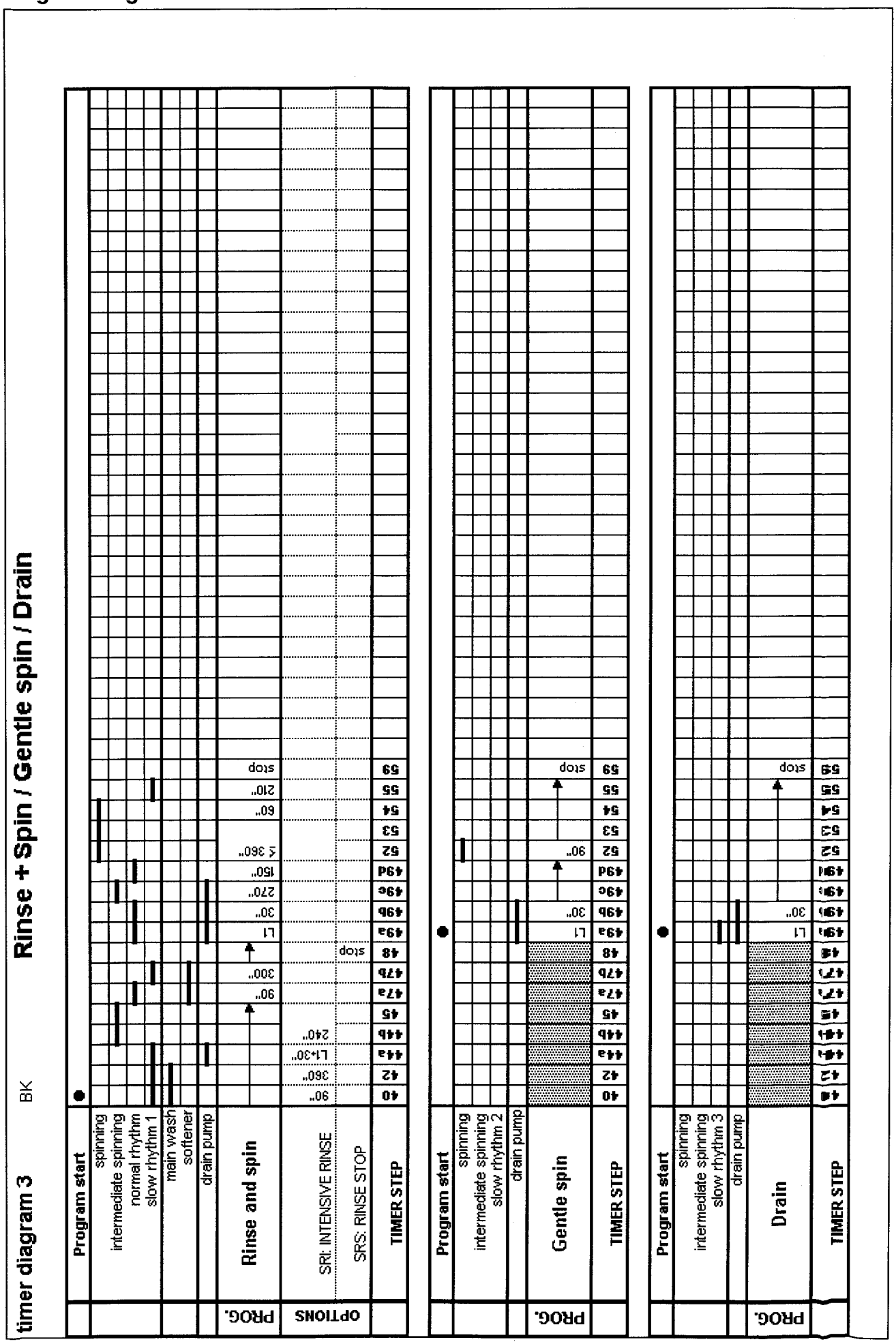


timer diagram 3 BK Delicate / Wool


Program start
Level
L2: level 2, pressostat
L1: level 1, pressostat
empty
TIMER STEP
1 3 5 7 16a 16b 18 22 24a 24b 26 30a 30b 32 35a 35b 37 47a 47b 48 49 52 53 55 59
drain pump
Inlet
pre wash
main wash
softener
Motor
intermediate spinning
slow rhythm 3
slow rhythm 2
slow rhythm 1
door locked
PROG.
DELICATE
6" → 30" L2 + 15" 30..40°C → 480" → L1 + 30" L2 + 25" 180" L1 + 30" L2 + 25" 180" 180" → L1 + 30" 270" 120" stop
TIMER STEP
1 3 5 7 16a 16b 18 22 24a 24b 26 30a 30b 32 35a 35b 37 47a 47b 48 49 52 53 55 59
max. Temperature
30°C 40°C 40°C
OPTIONS
SPW: PREWASH
L2 + 25" 30°C 180" NI + 30"
SRS: RINSE STOP
stop
Motor
spinning
slow rhythm 3
slow rhythm 2
slow rhythm 1
PROG.
WOOL
6" → 30" L2 + 15" 0..40°C → ≤ 180" ≤ 600" L1 + 30" L2 + 25" 120" L1 + 30" L2 + 25" 120" L1 + 30" L2 + 25" 120" → L1 + 30" 90" → → stop
TIMER STEP
1 3 5 7 16a 16b 18 22 24a 24b 26 30a 30b 32 35a 35b 37 47a 47b 48 49 52 53 55 59
max. Temperature
40°C
OPT.
SRS: RINSE STOP
stop

Motor rhythms: normal rhythm: ON 12"/OFF 4" slow rhythm 1: ON 10"/OFF 6" slow rhythm 2: ON 6"/OFF 10" slow rhythm 3: ON 1.5"/OFF 13.5"

Program diagram



Test flow Bauknecht timer 3 4619 712 15821

1. Select program	drain	
Clean the timer	push start button > 5 sec	
	wait until buzzer indicates end	
	select off	
2. Select program	drain	
3. Start test program	pre wash option on	max 5 sec
	pre wash option off	max 5 sec
	pre wash option on	max 5 sec
	pre wash option off	
	timer goes to step 1	
4. Indication elements	digit (display)	88
	start-LED	flashing
	start delay-LED	flashing
	rest time-LED	flashing
	door lock-LED	flashing
	water inlet-LED	flashing
5. Go to next step	pre wash option on	
	pre wash option off	
Finish the test program	push start button > 5 sec	

Attention: Use the test program only without laundry!

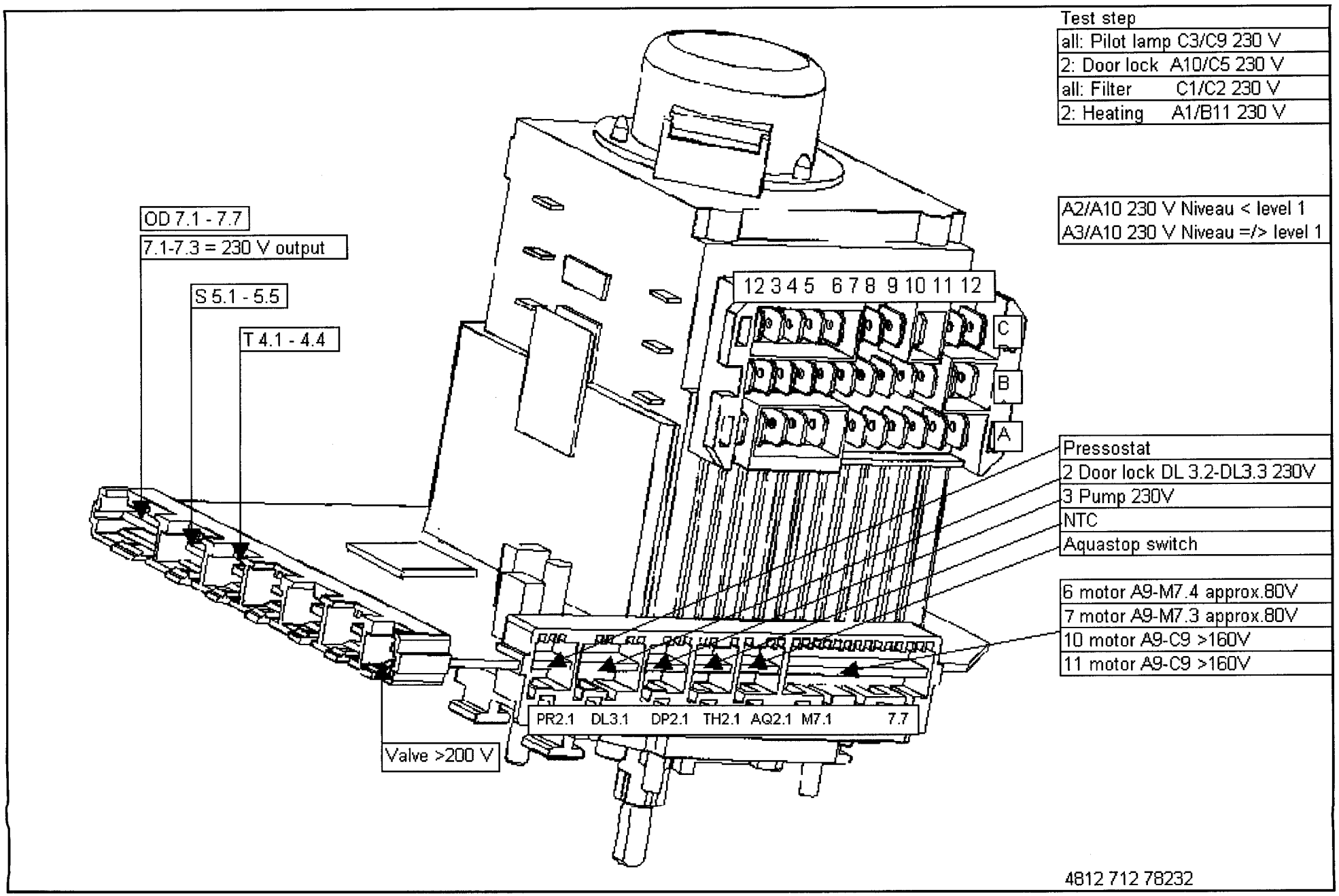
step	function	duration	checked	drum rhythm
1. step	fill,pre wash	level 2		
2. step	fill,pre wash	level 1, max 40°, 600"	NTC	
3. step	pump	level 1 + 30 sec		
4. step	fill	level 1		
5. step	fill, main wash	level 1, max 90°, 900"	NTC	
6. step	fill, main wash	level 1, 300 sec	motor	drum left
7. step	pump	level 1 + 30 sec	motor	drum right
8. step	fill, softening	level 2	motor	drum left
9. step	pump	level 1 + 30 sec		
10. step	ramp+spin	24 sec + 3 sec		intermed.spin
11. step	spin	90 sec	door lock	spinning
12. step	tapped field	270 sec	door lock	spinning
13. step	stop	endless		

If failure occurs see next page 4612 712 73232

If failure occurs	timer stays in its position buzzer beeping for 20 sec. (5 sec on, 5 sec off)
Appliances with delay	digit indication, see list
Appliances without delay	LED's on, see list

ERROR indication

ERROR	INTENSIVE LED	RINSE-HOLD LED	PREWASH LED	DIGITS
WATER-INLET ERROR	0	0	1	1
AQUASTOP / OVERFLOW	0	1	0	2
PUMPING ERROR	0	1	1	3
HEATING ERROR	1	0	0	4
NTC-ERROR	1	0	1	5
MOTOR BLOCKED	1	1	0	6
TACHO ERROR	1	1	0	6
TRIAC SC	1	1	1	7
HYBRID TIMER ERROR	1	1	1	7


Test step
all: Pilot lamp C3/C9 230 V
2: Door lock A10/C5 230 V
all: Filter C1/C2 230 V
2: Heating A1/B11 230 V
A2/A10 230 V Niveau < level 1
A3/A10 230 V Niveau =/> level 1
OD 7.1 - 7.7
7.1-7.3 = 230 V output
S 5.1 - 5.5
T 4.1 - 4.4
12 3 4 5 6 7 8 9 10 11 12
C
B
A
Pressostat
2 Door lock DL 3.2-DL3.3 230V
3 Pump 230V
NTC
Aquastop switch
6 motor A9-M7.4 approx.80V
7 motor A9-M7.3 approx.80V
10 motor A9-C9 >160V
11 motor A9-C9 >160V
PR2.1 DL3.1 DP2.1 TH2.1 AQ2.1 M7.1 7.7
Valve >200 V
4812 712 78232